6th Edition • October 21-23, 2025 • Detroit

V2G Business, Policy & Technology Forum: Fall

Addressing Challenges, Achieving the Potential of V2G

V2G: Are we there yet? The state of enabling technology, standards, policy and processes

The 6th edition of the **V2G Business, Policy & Technology Forum**, October 21-23, 2025 in Detroit brings together top industry players, working groups, utility professionals and others who are focused on the successful development and implementation of vehicle-to-grid in the United States.

Building on the success of previous editions, the Forum offers a neutral venue in which different V2G stakeholders can come together to work on accelerating V2G standardization and adoption in North America.

The goal is to examine obstacles and challenges to effectively achieving the potential of V2G, and to identify appropriate solutions and implementation success strategies for grid operators and other stakeholders across market verticals.

The Fall 2025 edition will take a special look at the state of enabling technologies for V2G, including standards progress, interoperability issues, residential and fleet charging, integration with V1G infrastructure, and more. In addition to in-depth presentations and panel sessions, the Forum will include breakout roundtable discussion in which attendees can interact in small groups to examine key topics.

If V2G is important to the future of your organization, you are encouraged to take part in these discussions.

"Great! Didn't think I could learn much more on the topic but the Forum was very enlightening."
- Joshua McDonald, Consulting Engineer, Southern California Edison

"Excellent conference. Gathering of so many diverse experts provided a clearer statement of problems and gaps but above all focused on solutions. Great networking!"
- Bjoern Christensen, Managing Director, Next-Dimension Advisors

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Agenda *Note: Subject to change. Additional speaker and session information TBA.*

Tuesday, October 21, 2025

8:00 am - 9:00 am

Registration and Welcome Continental Breakfast

9:00 am – 12:00 pm

Workshop 1: V2G AC Technologies and Standards

AC-based Vehicle-to-Grid (V2G) standards face several challenges, including fragmented and evolving communication protocols (e.g., ISO 15118, IEEE 2030.5, IEC 61851) that limit interoperability and create reliance on proprietary extensions, incomplete definitions for bidirectional AC power flow and energy settlement, and inconsistent grid compliance requirements (grid codes) for power quality, safety, and anti-islanding. Cybersecurity is unevenly addressed, with many chargers lacking robust authentication, encryption, and update mechanisms. Regulatory frameworks vary widely by region, with no globally unified AC V2G standard, complicating cross-border compatibility. Utilities also face integration hurdles due to legacy grid codes and DER aggregation standards not tailored to mobile storage, while the absence of standardized business models and transaction formats slows market adoption. This workshop explores these standardization issues, providing an understanding of the standards landscape related to V2G AC, and current industry efforts to address these challenges.

9:00 – 9:15 am

Opening Remarks & Objectives

- Workshop goals and expected outcomes
- Brief overview of V2G market trends and relevance of AC solutions

9:15 – 9:45 am

North American Fundamentals and Use Cases for V2G AC Technology

- How AC-based V2G differs from DC approaches
- Technical architecture: onboard chargers, grid interface, communication layers
- Use Cases: Residential V2G, workplace and fleets
- Grid support Use cases: frequency regulation, peak shaving, emergency backup

9:45 -10:15 am

Coffee Break

10:15 – 11:30 am

V2G-AC North American Standards & Interoperability

- **SAE J3072: V2G-AC** EV Requirements
- **UL 1741 SC: V2G-AC** EVSE Requirements
- **UL 1741 SB CRD:DER** Unit Certification
- **OCPP 2.1: CNO-EVSE** V2G Communications
- **ISO 15118-20 Am 1:** Communication protocols and Plug & Charge capabilities
- **IEEE 2030.5:** Smart energy profile for grid interaction (CSIP) and J3072 Profile

11:30 am – 12:00 pm

Interoperability & Cybersecurity

- Interoperability challenges V2G-AC and Task53
- Cybersecurity challenges in bidirectional charging

- *Facilitator:* James Mater, Senior Director - Smart Grid, **Quality Logic**
- Tim Zgonena, Principal Engineer, Distributed Energy Resources and Equipment, **UL**
- Mengjia Cao, High Voltage Charging Standards and Regulations Leader, **General Motors**
- Joshua McDonald, Consulting Architect and Engineer, **Southern California Edison**

12:00 – 2:30 pm

Lunch plus site tour of DTE's Grid Innovation Testbed Lab / Technical Training Facility *(open to all attendees, included in conference registration fee)*

3:00 – 5:00 pm

Workshop 2: V2G Policy and Regulatory Issues: Current Status, Challenges and Opportunities

The millions of electric vehicles venturing out on America's roads as part of public and private fleets have untapped potential as a key, flexible resource to support the changing electric grid and save - or even earn - money by doing so. While many vehicle-grid integration (VGI) technologies and capabilities, including vehicle-to-grid (V2G) charging, are readily available today to start driving value for EV owners & fleet operators, their use is limited by key policy and regulatory barriers.

This workshop will explore the historical and current state-by-state landscape for VGI and V2G policy, opportunities arising from recent and proposed federal and state legislation, and key action items to advance the industry.

Session 1: Introduction to VGI, V2G, and Challenges to Mass Deployment

- Workshop Scope
- The ABCs: VGI, V2G, V2X, V2H, V2B
- History of Utility and Automotive Regulation and Emerging Trends
- The Pillars to V2G Market Development: Interconnection, customer programs and utility rates, equipment incentives and market transition support, and standards development
- Case Studies in V2G Excellence
- Challenges to V2G Mass Adoption in North America
- V2G within emerging DER market design and charging infrastructure deployment

Session 2: Utility Interconnection Rules, Procedures, and Best Practices

- Customer Generator Interconnection 101
- Getting to Streamlined, Low-Friction Process End-State
- Interconnection Configurations
- V2G-DC
- V2G-AC
- Smart Inverter Requirements and Market Transition Exemptions
- Interconnection Scorecards, Queue Data Reporting, and Accountability
- V2G Interconnection Standardization and Streamlining Efforts

Session 3: The V2G Business Model Challenge: Unlocking Fair V2G Compensation and Supporting Market Transition

- The basics of V2G project economics
- The emerging paradigm for public and utility funding for charging infrastructure
- EVs as DER assets: energy storage incentives and demand response technology
- Utility rate design trends and best practices
- Customer program design trends and best practices
- Regulatory pathways for the development of rates and programs
- Customer marketing, education, and outreach to support V2G

Session 4: How to Contribute to Realizing the V2G Potential

- Who is working on V2G in the U.S.
- Utility business model, regulatory innovation and "sandboxing," and balancing ratepayer risks
- Federal/State V2G interest and activities
- Emerging utility V2G activities
- Trade Alliance and NGO V2G activities
- Standardization activities
- Forums and conferences
- Key activities that need to be accomplished
- How can interested companies/people get involved

- *Facilitator:* Zach Woogen, Executive Director, **Vehicle-Grid Integration Council**

5:00 – 6:30 pm

Networking Reception *(open to all registered attendees, not just workshop attendees)*

Wednesday, October 22, 2025

8:00 am – 8:45 am

Continental Breakfast and Registration

8:45 - 9:00 am

Welcome Comments

- Brian Calka, Sr. Vice President, Distribution Operations, **DTE Electric**

9:00 - 10:00 am

Opening Plenary Session: State of the V2G Industry

- John Holmes, Sr. Principal Energy Advisor, **American Honda Motor Company**
- Julie Mitchell, Technology & Innovation Leader, Energy & Charging Business Unit, **Stellantis**
- Dave Bend, Vice President, Business Development and Client Growth, **WeaveGrid**
- Ben Burns, Director of Energy Transition, **Eaton**

10:00 - 10:30 am

Plenary Address: An ACM Perspective on V2G: Opportunities and Offerings

- Reuben Sarkar, CEO and President, **American Center for Mobility**

10:30 – 11:00 am

Networking Coffee Break

11:00 am - 2:45 pm

Demos, Exhibits, and Interactive Discussions

The purpose is to show that the pieces are in place to do standards-based V2G at scale in an interoperable manner (vs proprietary solutions)

12:00 - 1:00 pm

Lunch

2:45 - 4:00 pm

The Higher-Level Policy Context for V2G in the U.S.

This panel will explore how states are laying the groundwork for vehicle-to-grid integration, highlighting efforts to foster adoption through supportive policy, utility engagement, and program design. Panelists will examine the importance of aligning regulatory frameworks with market incentives, focusing on fair, transparent compensation mechanisms critical to scaling V2G. The discussion will include methods to measure and value the diverse services provided by distributed energy resources (DERs) behind the meter—ranging from peak load reduction to grid stability—so that both grid operators and asset owners benefit equitably.

- *Moderator:* Blake Heidenreich, Strategic Advisor, **Southern California Edison**
- Kate Peters, Energy Research Associate, **The Brattle Group**
- Randy Armstrong, Clean Transportation Product Manager, **National Grid**
- Zach Woogen, Executive Director, **Vehicle-Grid Integration Council**

4:00 – 4:30 pm

Networking Coffee Break

4:30 – 5:30 pm

Harmonizing Global Standards for V2G

Harmonization and interoperability plays a critical role in accelerating vehicle-to-grid adoption worldwide. Industry experts and standards leaders in this session will discuss how aligning global protocols—such as ISO 15118, OCPP, SAE, IEC, and regional regulatory frameworks—can enable seamless communication between vehicles, chargers, and the grid. Panelists will highlight real-world deployments, technical and policy barriers to interoperability, and lessons learned from cross-border collaborations. Attendees will gain insight into how unified standards can reduce market fragmentation, drive innovation, and unlock the full potential of V2G for grid resilience, renewable integration, and global scalability.

- Frances Cleveland, President and Principal Consultant, **Xanthus Consulting International**
- Mengjia Cao, High Voltage Charging Standards and Regulations Leader, **General Motors**
- Bjoern Christensen, Chief Executive Officer, **Next Dimension**

5:30 - 7:00 pm

Networking Reception

Thursday, October 23, 2025

8:00 am - 9:00 am

Welcome Coffee and Continental Breakfast

9:00 - 10:15 am

Building a Roadmap -- Commercialization of V2G / Bidirectionality in the U.S.

This session will explore how vehicle-to-grid technology can deliver tangible value for both the electric grid and consumers, emphasizing that commercialization hinges on clear economic benefits. Panelists will discuss the development of customer programs, the design of tariffs, and compensation structures that incentivize participation while ensuring grid reliability. The conversation will focus on aligning utility, policy, and market

frameworks to create a sustainable business case for bidirectional charging, paving the way for scalable adoption and commercialization across the U.S.

- Garrett Fitzgerald, Senior Director, Electrification, **Smart Electric Power Alliance**
- Sarah Hipel, Chief Strategist, Secure Digital Infrastructure for Energy and Mobility, **National Renewable Energy Laboratory**
- Maddy Strutner, Grid Services Manager, **Toyota North America**
- Frances Bell, Founder and CEO, **Bidirectional Energy**
- Kristin Landry, Expert Product Specialist, **Pacific Gas & Electric**

10:15 – 10:45 am

Networking Coffee Break

TRACK A

10:45 am - 12:00 pm

V2G Standards Update: Moving Towards Interoperability

Panelists in this session will provide a candid look at the evolving standards landscape for vehicle-to-grid interoperability, focusing on both the technical progress and the structural gaps that still impede deployment. We will outline the latest developments in the draft IEEE 1547 standard, including what milestones have been achieved and what challenges remain, as well as updates from the UL 1741-SC efforts. The discussion will address missing supporting structures—such as payment mechanisms and frameworks to manage the complex interactions between underlying systems—that are essential for market viability. A key theme will be the shift from matched-pair interoperability testing toward certification-based approaches, and the lack of a cohesive framework to enable this transition at scale.

- *Moderator:* Glenn Skutt, Chief Technology Officer, **Fermata Energy**
- Ted Bohn, Electrical Engineer, **Argonne National Laboratory**
- Andrew Cifala, Strategic Planner for Grid Modernization, **Keysight Technologies**
- Tim Zgonena, Principal Engineer, Distributed Energy Resources and Equipment, **UL**
- Rodney McGee, Chief Engineer, University of Delaware Task Force Chair, NACS/J3400 and J3068, **SAE International**

TRACK B

10:45 am - 12:00 pm

Report from the Field: V2G Pilots Progress and Lessons Learned

Real-world insights from active vehicle-to-grid and vehicle-to-building (V2B) deployments, highlighting both successes and challenges in bringing these technologies from concept to operation. Presenters will discuss replicable lessons from California's electric school bus backup power projects, including technical integration, operational performance, and stakeholder coordination. We will also provide an update on Massachusetts' V2X program, offering a comparative look at program design, grid interaction models, and early market signals. Attendees will gain practical takeaways to inform future projects and accelerate the path toward scalable, value-driven V2G adoption.

- *Moderator:* Greggory Kresge, Senior Manager, Utility Engagement and Transportation Electrification, **World Resources Institute**
- Alex Macharia, VGI Program Manager, **The Mobility House**
- Megan Jarriel, Systems and Controls Manager, **Heliox**
- Elijah Sinclair, Senior Program Manager, **Massachusetts Clean Energy Center**

12:00 - 1:00 pm

Lunch

12:00 - 1:00 pm

Policy roundtable lunch discussion *(VGIC, SEPA - limit: 30. Pre-registration required)*

TRACK A

1:00 - 2:30 pm

When Will V2G AC Be Ready for Scaling / Prime Time?

This panel of leading standards experts will examine the readiness of North American V2G AC standards for broader market deployment, contrasting it with behind-the-meter applications such as vehicle-to-home. Panelists will address status of the V2G-AC standards for North America including UL 1741 SC, SAE J3072, ISO 15118-20 Am 1 and the new UL 1741 SB CRD. With V2G-AC momentum building, this session offers a timely opportunity for the industry to engage in candid dialogue on the progress of standardizing V2G AC in the evolving energy and mobility landscape.

- *Moderator:* James Mater, Senior Director - Smart Grid, **Quality Logic**
- Tim Zgonena, Principal Engineer, Distributed Energy Resources and Equipment, **UL**
- Joshua McDonald, Consulting Architect and Engineer, **Southern California Edison**
- Yukihiro Hatagishi, Electric Vehicle Charging Hardware Systems Researcher, **National Renewable Energy Laboratory**
- Antony Martin, Group Product Manager, EV Charging, **Lucid Motors**
- Shohei Nakamura, Assistant Chief Engineer, BEV Energy Service Ecosystem Development Dept., **Honda Motor Co., Ltd.**

TRACK B

1:00 - 2:30 pm

Electric Buses and V2G: Current Pilots, Results to Date, and Directions Forward

This session will explore the emerging role of electric buses as key players in vehicle-to-grid innovation, highlighting lessons learned from ongoing pilot projects across transit systems. Panelists will share real-world results to date, including insights on operational performance, grid services, cost savings, and challenges encountered in implementation. The discussion will place particular emphasis on the technical, regulatory, and financial factors shaping V2G adoption in public fleets, while outlining promising strategies for scaling up. Attendees will gain a forward-looking perspective on how electric buses can both decarbonize transit and support a more resilient, flexible energy system.

- *Moderator:* Jared Carson, Director of Sales, **Synop**
- Keyur Shah, Head of Product and Strategic Marketing, **Heliox, A Siemens Business**
- Tim Farquer, Superintendent at **Mercer County Schools**, Founder, **Bus2Grid**
- Greggory Kresge, Senior Manager, Utility Engagement and Transportation Electrification, **World Resources Institute**
- Leah Brams, Market Development Manager, **Highland Electric Fleets**

2:30 - 3:00 pm

Networking Coffee Break

TRACK A

3:00 – 4:30 pm

Cybersecurity Considerations for V2G: Meeting the Challenge

Emerging security challenges are becoming evident at the intersection of electric mobility and the power grid. As V2G systems enable bidirectional energy flow and deep integration between vehicles, charging infrastructure, and grid management platforms, they also introduce new attack surfaces and vulnerabilities. Panelists will examine critical topics such as authentication and encryption for charging communications, risks from compromised devices or networks, supply chain security, and the need for resilient architectures that can withstand both cyberattacks and grid disturbances. One topic in particular will be DC reverse power transfer (V2X) using the DIN 70121 protocol from EVs not designed for V2X. Real-world lessons from pilot projects and related energy-sector security incidents will inform a discussion on best practices, standards development, and collaboration between automakers, utilities, technology providers, and regulators to ensure that V2G can scale safely and securely.

- Richard "Barney" Carlson, Principal Research Engineer, **Idaho National Laboratory**
- Adam Wilkinson, Lead Solution Architect, **Irdeto**
- Tom Tansy, CEO, **DER Security Corp**
- Thomas Carroll, Cyber Security Researcher, **Pacific Northwest National Laboratory**

TRACK B

3:00 – 3:30 pm

V2X in Japan: From Concept to Consumer Product

Vehicle-to-everything (V2X) technology, encompassing Vehicle-to-Load (V2L), Vehicle-to-Home (V2H), and Vehicle-to-Grid (V2G), has long been discussed as a future solution for energy management. However, in Japan, this technology has moved beyond the conceptual phase and is now a mainstream consumer product. This presentation will highlight how V2X has become a practical reality for thousands of Japanese consumers, driven by real-world applications and a strong supporting ecosystem.

We will provide a detailed overview of V2L and V2H technologies in Japan, showcasing how electric vehicles (EVs) are used as mobile power sources during emergencies and to offset household electricity costs. The presentation will feature real-world data and case studies from key industry leaders, including TEPCO, a major utility company pioneering V2G initiatives, the CHAdeMO Association, which has played a crucial role in standardizing bidirectional charging, and Nichicon, a leading manufacturer of V2H systems.

This presentation aims to demonstrate that V2X is no longer a theoretical concept but a proven consumer product with a clear value proposition. Our discussion will provide valuable insights into the market, policy, and technology drivers that have accelerated V2X adoption in Japan, offering a roadmap for other regions to follow.

- David N. Patterson P.E., Executive Director, **CHAdeMo Association North America**

3:00 – 3:30 pm

Closing Comments

Event Venue

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V2G News delivers expert insights every two weeks to inform, inspire, and accelerate the adoption of Vehicle-to-Grid (V2G) technology. Founded and led by Steve Letendre, PhD, V2G News focuses exclusively on bidirectional charging and V2G technology. Whether you're just getting started or already working deeply in this space, V2G News is your go-to source for policy updates, pilot results, market trends, and strategic partnerships. Learn more at v2gnews.com.

In collaboration with partners and communities, WRI's Electric School Bus Initiative aims to build unstoppable momentum toward an equitable transition of the entire U.S. school bus fleet to electric by 2030, bringing health, climate and economic benefits to children and families across the country and normalizing electric mobility for an entire generation. For more information on the Initiative, click here.

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Vehicle Grid Integration Council (VGIC) is a national 501(c)(6) membership-based advocacy group committed to advancing the role of electric vehicles and smart EV charging and discharging through policy development, education, outreach, and research. Visit www.vgicouncil.org

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"Very informative. The ability to talk to experts in the field as well as meet potential partners was the most valuable aspect"
- Shannon Anderson, Senior Planner, EV Infrastructure and V2X Strategy, Nissan North America

"Everything was well organized, ran smoothly, and was on time. Lots of great discussion"
- Sammy Nabahani, Solutions Engineer, WeaveGrid

"Really glad I attended -- good connections and ideas"
- Greggory Kresge, Senior Manager, Utility Engagement and Transportation Electrification, World Resources Institute

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STMicroelectronics
Strathmore Energy Research CenterC
SUBNET Solutions Inc.
Sunrun
Survalent
Symantec
TechTarget
Telcordia Technologies
Telintnet Research
Telvent
Tesla
The Climate Center
There Corporation Ltd.
Tokyo Electric Power Company Holdings
Toronto Hydro Corp
Toyota Motor North America
TRASYS
Trilliant
Trinity 360
Tripwire
TXU Energy/Vistra
Tyco
UK Trade & Investment
Ulticom
University of Colorado
University of Illinois
University of Kentucky
USTelecom Association
U.S. Dept. of Energy
Utilicom
VaasaETT Global Energy Think Tank
Verisae
Verizon Wireless
ViZn Energy
Wallbox Chargers USA
Waterfall
Westeva SAS
World Resources Institute
WiTricity
Wurldtech
Xtensible Solutions
Younicos AG
Zenith Alternative Energy

Sponsorship Options

Platinum - $6,500

- Recognition as official Lunch, Wi-Fi or lanyard sponsor (website, onsite signage and tent cards)
- Tabletop exhibit space
- Booth space in V2G demo area
- 4 complimentary passes
- Top-level logo visibility on event website and in all marketing communications
- Top-level logo recognition throughout the conference, during breaks and session introductions
- Virtual Exhibits display page / booth (available for full year after close of Summit)
- Opportunity to help guide overall program
- White paper or executive interview published on event website
- Attendee list
- Special introductions and one-to-one meetings facilitated by SGO
- Corporate description with link on Sponsors page
- Post-conference communication with attendees

Gold - $4,500

- Tabletop exhibit space
- 3 complimentary conference passes
- 15% off additional registrations
- Logo positioning on event website, agenda, on-site signage, in introductory comments, and in all marketing communications for the event
- Corporate description with link on event Sponsors website
- Attendee List with contact information

Silver - $3,500

- Tabletop exhibit space
- Booth space in V2G demo area
- 2 complimentary passes
- Attendee list
- Virtual Exhibits display page / booth (available for full year after close of Summit)
- Prominent logo visibility on event website and in all marketing communications
- Prominent logo recognition throughout the conference, during breaks and session introductions
- Corporate description with link on "Sponsors" page

Bronze - $2,500

- 1 complimentary pass
- Attendee list
- Virtual Exhibits display page / booth (available for full year after close of Summit)
- Prominent logo visibility on event website and in all marketing communications
- Prominent logo recognition throughout the conference, during breaks and session introductions
- Corporate description with link on "Sponsors" page

To arrange your participation, contact: Daniel Coran, Program Manager
dcoran@smartgridobserver.com +1-815-310-3343

About the Organizer

The Smart Grid Observer is an online information portal and weekly e-newsletter serving the global smart energy industry. SGO delivers the latest news and information on a daily basis concerning key technology developments, deployment updates, standards work, business issues, and market trends driving the smart grid industry worldwide. Visit https://smartgridobserver.com to sign up for a complimentary subscription.

For a list of upcoming and recent Forums, click here

Registration

Early Bird Main Conference, Standard Rate - Equipment and software providers, consultants, and services providers *Available until September 19, 2025 - $995.00 thereafter. Access to sessions on October 22-23, including lunches, networking coffee breaks, and exhibits/demos. Access to drink receptions on October 21 and 22. Copy of presentation PDFs and attendee list*	$895.00
Early Bird Main Conference – utilities, academic, government and non-profit organizations *Available until September 19 - $795.00 thereafter. Access to sessions on October 22-23, including lunches, networking coffee breaks, and exhibits/demos. Access to drink receptions on October 21 and 22. Copy of presentation PDFs and attendee list*	$695.00
Early Bird Conference plus workshop, Standard Rate - Equipment and software providers, consultants, and services providers *Available until September 19 - $1,390.00 thereafter. Includes access to workshops on October 21.*	$1,290.00
Early Bird Conference plus workshop – utilities, academic, government and non-profit organizations *Available until September 19 - $1,190.00 thereafter. Includes access to workshops on October 21. Note: .org, .edu or .gov email address required for non-utility registrants*	$1,090.00
Early Bird Workshops only *Available until September 19 - $595.00 thereafter. Access to workshops and drink reception on October 21*	$495.00

Register securely online at
https://v2gforum-sgo.com/register